What is claimed is:

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- 1. A pipetting device for detachably mountable pipette tips, comprising:
- 5 a moving device (7)
 - a piston (8) movable by the moving device (7) in a cylinder (9) to displace a column of air,
 - an attachment stem (3) for mounting a pipette tip (4), with an aperture having a connection (14) to the cylinder (9) at the free end,
- two stops (11, 13) limiting the movement of the piston (8) during the displacement of the column of air, one of which is dislocatable,
 - a precise adjustment device (6) for dislocating the dislocatable stop (11) in parallel with the piston (8) for a precise adjustment of the piston stroke,
 - a coupling device (15) which puts the precise adjustment device (6) into function, when coupled, and puts it out of function, when uncoupled,
 - a rough adjustment device (10) for dislocating the dislocatable stop (11) when the precise adjustment device (6) is uncoupled, for a rough adjustment of the piston stroke, and
- a measuring and indicating device (17) coupled to the dislocatable stop (11) for measuring the position set for the dislocatable stop (11) and indicating the proportioning volume that matches the piston stroke set.
- The pipetting device as claimed in claim 1 wherein the dislocatable stop (11) is adjustable by means of a spindle (4) which is threadable into a spindle nut (5) with the coupling device (11), when coupled, causing the spindle nut (5) to engage the spindle and, when uncoupled, cancels the engagement or, when coupled, causes the spindle nut (5) to be supported in the axial direction of the piston (8) and, when uncoupled, cancels the support.

3. The pipetting device as claimed in claim 2 wherein the dislocatable stop (11) is disposed within the spindle which is passed through by a piston rod (7) of the piston (8) that has a counter-stop (12) which strikes the dislocatable stop (11) at one end of the piston stroke.

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4. The pipetting device as claimed in claim 2 wherein the spindle (4) is laterally disposed next to a piston rod (7) of the piston (8) and has a laterally projecting, dislocatable stop (11) which strikes a counter-stop of the piston rod of the piston (8) at one end of the piston stroke.

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- 5. The pipetting device as claimed in claim 1 wherein the dislocatable stop (11) laterally projects from a toothed rack which is disposed in parallel with a piston rod (7) of the piston (8) that meshes with a gear for the precise adjustment of the toothed rack with the coupling device, when coupled, causing the gear to engage the toothed rack and, when uncoupled, cancels the engagement or, when coupled, causes the bearing of the gear to be supported in the axial direction of the piston (8) and, when uncoupled, cancels the support.
- 6. The pipetting device as claimed in claim 2 wherein a rotary knob (6) for a precise adjustment of the piston stroke is connected to the spindle (4) or the gear.
 - 7. The pipetting device as claimed in claim 1 wherein the coupling device (15) is formed as a non-positive or positive or electromagnetic clutch device.
- 25 8. The pipetting device as claimed in claim 1 wherein a piston rod (7) of the piston (8) is operable by means of spring-loaded push-button (10).
 - 9. The pipetting device as claimed in claim 1 wherein the coupling device (15) is operable by means of spring-loaded control button (16).

10. The pipetting device as claimed in claim 1 wherein the measuring and indicating device is a mechanical and/or electronic and/or opto-electronic measuring and indicating device (17).